

What is claimed is:

1. A keyboard controller, comprising;
a computer host interface receiving multiple signals;
a command filtering circuitry parsing the said multiple signals and then
5 processing the signals to the pure hardware circuitry or a micro-controller unit;
and
an interface circuitry processing the received signals;
wherein said keyboard controller can parse multiple signals. Then, it processes the
received signals to the said pure hardware circuitry or to the said micro-controller
10 unit for achieving flexibility and extension ability.
2. The keyboard controller according to claim 1, wherein the multiple signals of
the said keyboard controller can be multiple data or commands.
3. The keyboard controller according to claim 1, wherein the interface circuitry of
the said keyboard controller can be 64h or 60h of input/output ports.
- 15 4. The keyboard controller according to claim 1, wherein the command filtering
circuitry of the said keyboard controller can have multiple controlled switches. It
uses different switches to process signal analysis and parsing works.
5. The keyboard controller according to claim 1, wherein the micro-controller unit
of the said keyboard controller can be a firmware.
- 20 6. A method for controlling a keyboard controller comprising the steps of:
receiving the signals of the assigned PS/2 controller from the computer host to the
host interface of the said keyboard controller. Then, transferring the signals to the
command filtering circuitry;
parsing the signals of the host interface. If the signal is a standard command, the
25 signal would be sent to the pure hardware circuitry. Otherwise, the signal would
be sent to the micro-controller unit;

sending the processed signals to the interface circuitry after processing the signal by the pure hardware circuitry and the micro-controller unit; and sending the signal to the PS/2 controller according to the command of the computer host by the said interface circuitry. The said keyboard controller using a 5 command filter circuit parses the signal. Then, the signal would be sent to the said pure hardware circuitry or to the said micro-controller unit for achieving a fast processing speed in between a computer host and a PS/2 controller.

7. A method for controlling a keyboard controller comprising the steps of: returning the signal to the keyboard controller while a computer ordering a PS/2 10 controller to return the signal by the PS/2 controller. When the returned signal is standard command, the signal would be sent to the pure hardware computer circuitry. Otherwise, the signal would be sent to the micro-controller unit; and sending the signal to the command filtering circuitry for processing analysis. Then, sending the signals to the host interface. The host interface receives the performed 15 commands from the command of PS/2 controller for processing, and the keyboard controller connects with the computer host and the PS/2 controller for achieving a fast processing response.